APPENDIX A

Claims marked for amendment.

Strikethrough indicates deletion and underlining indicates insertion.

- 38. (Four Times Amended) A method of screening for modulators of a lipopolysaccharide mediated response comprising the steps of:
 - a) obtaining a cell expressing a TLR-4 polypeptide having the amino acid sequence of SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:98 or SEQ ID NO:99;
 - b) providing to the cell lipopolysaccharide sufficient to induce a lipopolysaccharide mediated response;
 - bc) measuring a lipopolysaccharide mediated response mediated by the TLR-4 polypeptide;
 - ed) contacting the TLR-4 polypeptide with a putative modulator;
 - de) assaying for a change in the lipopolysaccharide mediated response; and
 - ef) comparing the lipopolysaccharide mediated responses mediated by the TLR-4 polypeptide obtained in steps bc) and de) above

wherein a difference in the lipopolysaccharide mediated responses indicates that the putative modulator is a modulator of a lipopolysaccharide mediated response.

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APPENDIX B

Clean copy of the claims as amended in U.S. Ser. No. 09/396,985.

- 38. A method of screening for modulators of a lipopolysaccharide mediated response comprising the steps of:
 - a) obtaining a cell expressing a TLR-4 polypeptide having the amino acid sequence
 of SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:98 or SEQ ID
 NO:99;
 - b) providing to the cell lipopolysaccharide sufficient to induce a lipopolysaccharide mediated response;
 - c) measuring a lipopolysaccharide mediated response mediated by the TLR-4 polypeptide;
 - d) contacting the TLR-4 polypeptide with a putative modulator;
 - e) assaying for a change in the lipopolysaccharide mediated response; and
 - f) comparing the lipopolysaccharide mediated responses mediated by the TLR-4 polypeptide obtained in steps c) and e) above

wherein a difference in the lipopolysaccharide mediated responses indicates that the putative modulator is a modulator of a lipopolysaccharide mediated response.

- 40. The method of claim 39, wherein the lipopolysaccharide mediated response mediated by the TLR-4 polypeptide is determined by determining the ability of the TLR-4 polypeptide to stimulate transcription of a reporter gene, the reporter gene operatively positioned under control of a nucleic acid segment comprising a promoter from a TLR-4 gene.
- 52. The method of claim 38, wherein said putative modulator is effective in altering the mediation of the lipopolysaccharide mediated response by TLR-4.

- 53. The method of claim 52, wherein said putative modulator is an agonist.
- 54. The method of claim 52, wherein said putative modulator is an antagonist.
- 55. The method of claim 52, wherein said putative modulator affects the transcription of TLR-4.
- 56. The method of claim 52, wherein said putative modulator affects the translation of TLR-4.
- 57. The method of claim 38, wherein the TLR-4 polypeptide has the amino acid sequence of SEQ ID NO:2.
- 58. The method of claim 38, wherein the TLR-4 polypeptide has the amino acid sequence of SEQ ID NO:4.
- 59. The method of claim 38, wherein the TLR-4 polypeptide has the amino acid sequence of SEQ ID NO:6.
- 60. The method of claim 38, wherein the TLR-4 polypeptide has the amino acid sequence of SEQ ID NO:98.
- 61. The method of claim 38, wherein the TLR-4 polypeptide has the amino acid sequence of SEQ ID NO:99.
- 63. The method of claim 38, wherein said putative modulator inhibits TLR-4 directed signaling of TNF secretion.
- 64. The method of claim 38, wherein said putative modulator stimulates TLR-4 directed signaling of TNF secretion.

- 65. The method of claim 38, wherein said putative modulator to be screened is obtained from a library of synthetic chemicals.
- 66. The method of claim 38, wherein said putative modulator to be screened is obtained from a natural source.
- 67. The method of claim 65, wherein said natural source is selected from the group consisting of animals, bacteria, fungi, plant sources and living marine samples.
- 68. The method of claim 38, wherein said putative modulator to be screened is a protein or peptide.
- 70. The method of claim 38, wherein said putative modulator to be screened is a nucleic acid molecule.
- 71. The method of claim 38, wherein said putative modulator to be screened is a stimulator of an immune response.
- 72. The method of claim 71, wherein said stimulator of an immune response is a cytokine.
- 73. The method of claim 71, wherein said stimulator of an immune response is an interferon.
- 74. The method of claim 38, wherein said TLR-4 polypeptide is encoded by a nucleic acid sequence selected from the group comprising SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:46, SEQ ID NO:47 and SEQ ID NO:48.
- 75. The method of claim 38, wherein said putative modulator to be screened is an IL-1 receptor antagonist.